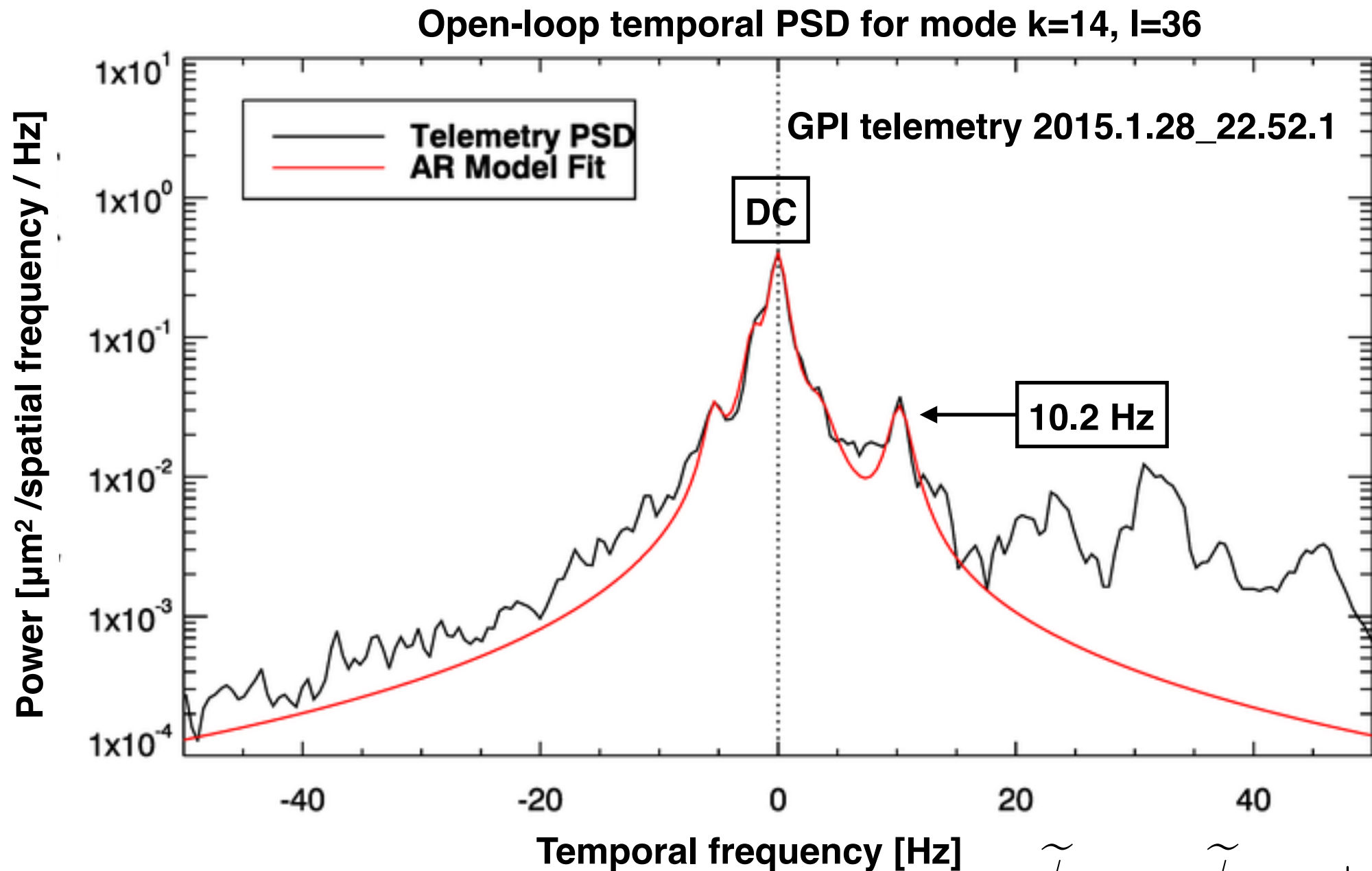


Towards a more realistic atmosphere model

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Desirables:

- Computationally efficient
- Accounts for “boiling”
- Accommodates multiple wind layers
- Accurate statistics (r_0 , L_0 , structure function)
- Allows temporal evolution of r_0 , L_0
- Tied to reality (*i.e.* based on collected telemetry)

$$\tilde{\phi}_t = \alpha \tilde{\phi}_{t-1} + \sqrt{1 - |\alpha|^2} P \tilde{\omega}_t$$